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From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY **PCT** LEANDRO ARECHEDERRA EXXONMOBILE CHEMICAL COMPANY LAW TECHNOLOGY WRITTEN OPINION P.O. BOX 2149 BAYTOWN, TX 77522-2149 (PCT Rule 66) SEP 2004 Date of Mailing (day/month/year) REPLY DUE Applicant's or agent's file reference within 2 months/days from the above date of mailing Priority date (day/month/year) International filing date (day/month/year) International application No. 20 December 2002 (20.12.2002) 19 December 2003 (19.12.2003) PCT/US03/40858 International Patent Classification (IPC) or both national classification and IPC IPC(7): C08F 4/44, 4/32, 136/02, 112/06 and US Cl.:, 422/131,138; 526/348,348.7,335,339,144,74,346,90,213,227 Applicant EXXONMOBIL CHEMICAL PATENTS INC This written opinion is the first (first, etc.) drawn by this International Preliminary Examining Authority. This opinion contains indications relating to the following items: Basis of the opinion Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Ш Lack of unity of invention Reasoned statement under Rule 66.2 (a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Certain documents cited VΙ Certain defects in the international application VII Certain observations on the international application VIII The applicant is hereby invited to reply to this opinion. See the time limit indicated above. The applicant may, before the expiration of that time limit, request When? this Authority to grant an extension. See rule 66.2(d). By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. How? For the form and the language of the amendments, see Rules 66.8 and 66.9. For an additional opportunity to submit amendments, see Rule 66.4. Also For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis. For an informal communication with the examiner, see Rule 66.6 If no reply is filed, the international preliminary examination report will be established on the basis of this opinion. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 20 April 2005 (20.04.2005) Name and mailing address of the IPEA/US Authorized officer Mail Stop PCT, Attn: IPEA/US

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ACKNOWLEDGED PATENT LEGAL ASSISTANT GROUP G. M. CARROLL

SEP 2 9 2004

☐ Reminder

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SEP 2 8 2004



International application No.	
PCT/US03/46co8	_

	The spinion						
1.	Basis of the opinion						
1.	. With regard to the elements of the international application:*						
	the international application as originally filed						
	the description:						
	pages 1-107, as originally filed						
	pages 1-107 , filed with the demand pages NONE , filed with the letter of						
	pages NONE, filed with the definant pages NONE, filed with the letter of						
	the claims:						
	pages 108-121, as originally filed pages NONE, as amended (together with any statement) under Article 19						
	as amended (together with any statement)						
	pages NONE, filed with the demand  pages NONE, filed with the letter of						
	pages NONE, filed with the letter of						
	the drawings:						
	as originally filed						
		l					
	pages NONE, filed with the defination pages NONE, filed with the letter of	ĺ					
1	the sequence listing part of the description:						
	as originally filed						
1	THE THE STATE THE STATE STATES	ļ					
	above were available of nimished to this Authority in the	l					
1	2. With regard to the language, all the elements marked above were available of the language, all the elements marked above were available of the language, all the elements marked above were available of the language, all the elements marked above were available of the language, all the elements marked above were available of the language and language which is:	1					
	mi an alamente were available of nimished with Authority in the 1997						
	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).						
	c 11: retire of the international application (under Rule 48.3(0)).						
1	the language of publication of the international appropriate the language of the translation furnished for the purposes of international preliminary examination (under Rules the language of the translation furnished for the purposes of international preliminary examination (under Rules						
	55 2 and/or 55 3)						
١	3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the written	l					
-	opinion was drawn on the basis of the sequence listing:						
1	contained in the international application in printed form.	İ					
-	filed together with the international application in computer readable form.						
ł	furnished subsequently to this Authority in written form.						
1	Computer readable form.	-					
-	The statement that the subsequently furnished written sequence listing does not go beyond the discussive in the	1					
-		وا					
ŀ	The statement that the information recorded in computer readable form is identical to the written sequence listing	٦					
١	has been furnished.	١					
	4. The amendments have resulted in the cancellation of:						
	the description, pages NONE	١					
	the claims, Nos. NONE	-					
	the drawings sheets/fig NONE						
	This enjoyen has been drawn as if (some of) the amendments had not been made, since they have been considered to go	-					
	havend the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).	in					
	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to						
	this opinion as "originally filed."						

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International application No. PCT/US03/40858

Симиона ина стра	h statement		V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1. STATEMENT										
Novelty (N)		1-58								
Horoid (17)	Claims	59	110							
(16)	Claims	1-58	YES							
Inventive Step (IS)		59								
	<i>C</i> 1. <i>i</i>	1-59	_YES							
Industrial Applicability (IA)		1-39								
2. CITATIONS AND EXPLANATIONS Claim 59 lacks novelty under PCT Article 33(2) as being anticipated by each individually of Kim et al. (US 6,303,715) and Kruger et al. (US 6,346,587) as cited on the International search report. Claim 59 includes all polymers made by any of the methods recited in the preceding claims, such polymers lacking any specific properties whatsoever. Accordingly, given both the breath of polymers the preceding claims, such polymers acking any specific properties whatsoever. Accordingly, given both the breath of their method of manufacture, the polymers exemplified in each of the cited references would be within the scope of claim 59, and therefore the claim lacks rovelty.  Claims 1-58 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the combination of using an HFC diluent in combination with a reactor comprising a bayonet. The prior art has described bayonetic beat exchangers (see Derwent 1992-022267 and Derwent 1998-330861 as cited on the International Search Report) and has also described the use of HFC diluents in polymerization methods (examples of Kruger et al. (US '587)); however, given the vast array of possible reactor configurations and polymerization methods available in the art, no suggestion can be found to combine these two particular components into a single method.  Claims 1-59 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.  NEW CITATIONS ————————————————————————————————————										

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## WRITTEN OPINION

Internate application No. PCT/US03/40858

Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient)									
TIME LIMIT: The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the The time limit set for response to a Written Opinion will not be considered in preparing the International Preliminary Examination expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.									

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